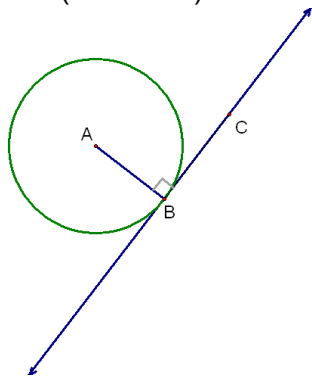


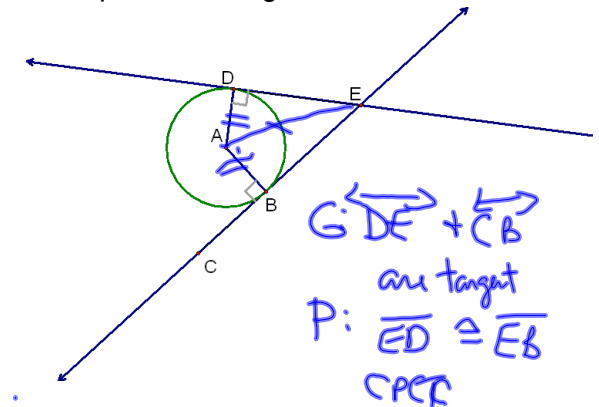
10-5 Tangents

Theorem 10-9--Radius is perpendicular to the tangent at the point of tangency

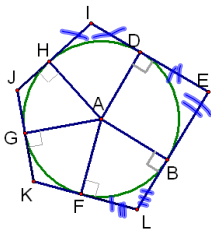
Theorem 10-10--(Converse)



Theorem 10-11--Tangents from the same point are congruent.

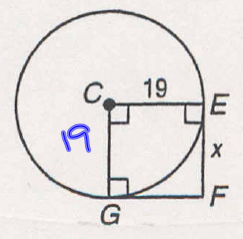


When a circle is inscribed in a polygon, all of the segments of the polygon are tangent to the circle.



$$x = 19$$

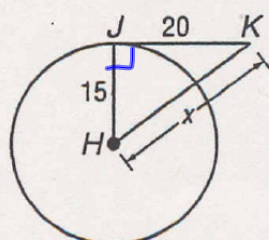
1.



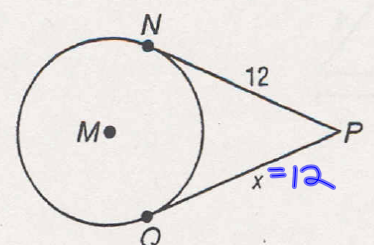
$$x^2 = 15^2 + 20^2$$

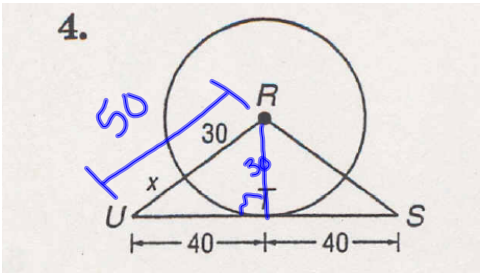
$$x = 25$$

2.

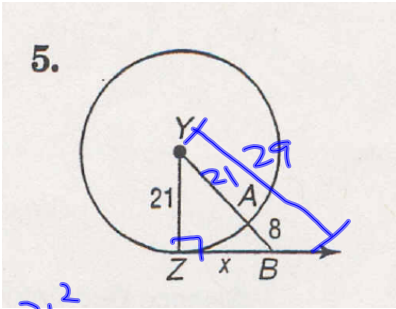


3.

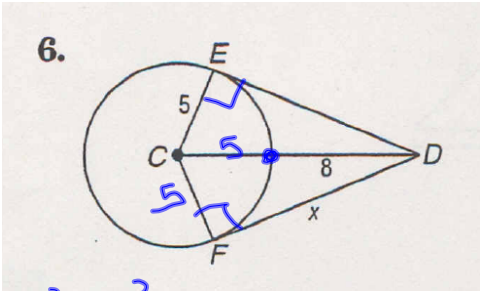




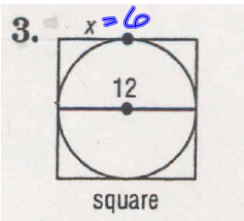
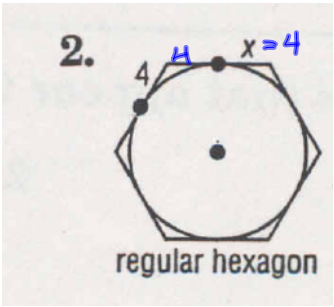
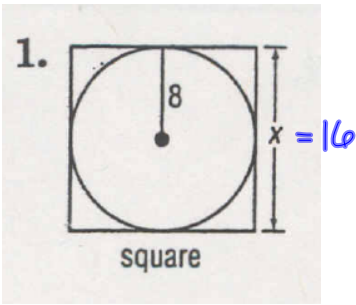
$$RU^2 = 30^2 + 40^2$$
$$RU = 50$$
$$x = 20$$

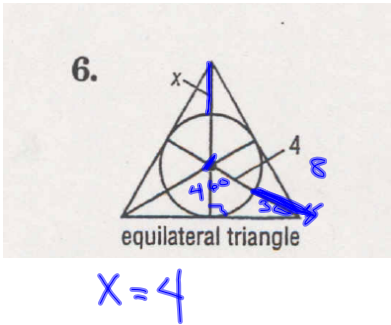
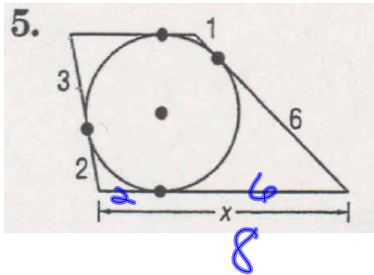
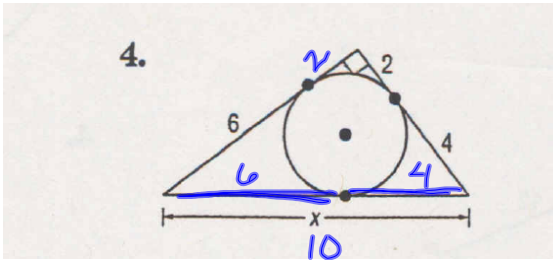


$$29^2 = x^2 + 21^2$$
$$20 = x$$



$$13^2 = 5^2 + x^2$$
$$R = x$$





HW
p556
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